NOV 0 5 2004 THE ADEM

35R1897

PTO/S8/01A (10-01) Approved for use through 10/31/2002, OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1895, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

## DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN **APPLICATION DATA SHEET (37 CFR 1.76)**

Title of Invention	GMR SENSOR WITH SHALLOW CONTIGUOUS JUNCTION AND BIAS LAYERS ALIGNED WITH FREE SENSOR LAYERS					
As the below name	d inventor(s), I/we declare that:					
This declaration is directed to:						
	The attached application, or					
	Application No. 10/788,656 , filed on February 27, 2004 ,					
	as amended on(if applicable);					
I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought;						
I/ we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;						
I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.						
All statements made herein of my/own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by line or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.						
FULL NAME OF INVENTOR(S)						
I OFF WAINT OF HA	VENTOR(S)					
	VENTOR(S) 'INGJIAN CHEN					
,						
Inventor one:	INGJIAN CHEN					
Inventor one: Signature:	INGJIAN CHEN  Citizen of: PR CHINA					
Inventor one:  Signature:  Inventor two:  Signature:	Citizen of: PR CHINA  EI ZHANG					
Inventor one:  Signature:  Inventor two:  Signature:  Inventor three:	Citizen of: PR CHINA  Citizen of: PR CHINA  Citizen of: PR CHINA					
Inventor one:  Signature:  Inventor two:  Signature:  Inventor three:  Model of the state of the	Citizen of: PR CHINA  Citizen of: PR CHINA  Citizen of: PR CHINA  Citizen of: PR CHINA					
Inventor one:  Signature:  Inventor two:  Signature:  Inventor three:  Minus  Signature:	Citizen of: PR CHINA  Citizen of: PR CHINA  Citizen of: PR CHINA  Citizen of: UNITED STATES					

Burden Hour Statement: This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is used by the public to file (and the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 1 manute to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



K35R1897

PTO/SB/01A (10-01) Approved for use through 10/31/2002. DMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

GMR SENSOR WITH SHALLOW CONTIGUOUS JUNCTION AND BIAS LAYERS ALIGNED WITH

## DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN **APPLICATION DATA SHEET (37 CFR 1.76)**

Title of Invention	FRE	E SENSOR LAYERS					
As the below named inventor(s), I/we declare that:							
This declaration is directed to:							
		The attached application, or					
	×	Application No. 10/788,656 , filed on February 27, 2004 ,					
		as amended on(if applicable);					
I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought;							
I/ we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;							
I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.							
All statements made herein of my/own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.							
FULL NAME OF I	NVEN	NTOR(S)					
Inventor one: _		IGJIAN CHEN					
Signature:		Citizen of: PR CHINA					
Inventor two:	WEI.	ZHANG					
Signature:		Citizen of: PR CHINA					
Inventor three:	МОН	HAMAD T. KROUNBI					
Signature:		Citizen of: UNITED STATES					
Inventor four:	SATO	ORU ARAKI					
Signature:		Citizen of: JAPAN					

purcent nour Statement: This concern at information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is used by the public to file (and the USPTO to process) an application. Confidentially is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 1 minute to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231. Burden Hour Statement: This collection of information is required by 35 U.S.C.

NOV 0 5 2004

K\$5R1897

PTO/SB/01A (10-01) Approved for use through 10/31/2002. OMB 0551-0032
U.S. Patent and Trademerk Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent And Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent And Trademark Office; U.S. DEPARTMENT OF COMMENTS

U.S. Patent And Trademark Offi

## DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN **APPLICATION DATA SHEET (37 CFR 1.76)**

Wal	GMR SENSOR WITH SHALLOW CONTIGUOUS JUNCTION AND BIAS LAYERS ALIGNED WITH						
,,,,,,	tle of Invention FREE SENSOR LAYERS  s the below named inventor(s), I/we declare that:						
This declaration is directed to:							
	П	The attached application, or	flod on February 27, 2004				
	×		, filed on February 27, 2004				
		as amended on	(if applicable);				
I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought;							
I/ we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;							
I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.							
All statements made herein of my/own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.							
FULL NAME OF I	NVEN	TOR(\$)					
		QIU ZHANG					
Signature: /		maju Zhang	Citizen of: PR CHINA				
Inventor six:		<u> </u>	· 4889				
Signature:			Citizen of:				
Inventor seven:							
Signature:			Citizen of:				
Inventor eight:							
Signature:			Citizen of:				
Additional invent	ors an	e heing named on	additional form(s) attached hereto.				

Burden Hour Statement; This collection of information is required by \$5 U.S.C. 115 and 37 CFR 1.63. The information is used by the public to file (and the USPTO to process) an application. Confidentially is governed by \$5 U.S.C. 122 and \$7 CFR 1.14. This form is estimated to take 1 minute to complete. This time will vary depending upon the needs of the individual case, Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.